

CLAIM AMENDMENTS

Claims 1-13 (Canceled).

Claim 14 (new): A computing system, comprising:

a central processing unit;

a first and a second operating system operatively communicating with said central process unit, wherein said first operating system comprises a first storage unit storing first data set, and said second operating system comprises a second storage unit storing second data set; and

a switch device operatively communicated with said central processing unit to operate said computing system between a first status and a second status, wherein in said first status, said central processing unit allows uninterrupted and sole access to said first data set of said first operating system while prohibiting access of said second data set of said second operating system, wherein in said second status, said central processing unit is switched to allow uninterrupted and sole access to said second data set of said second operating system while prohibiting access to said first data set from said first operating system, so that said computing system is adapted to operate between said two status independently with each other and with maximum security between said first and said second status.

Claim 15 (new): The computing system, as recited in claim 14, wherein said switch device comprises a status switch command input unit communicating with said switch unit and adapted to trigger an input signal for switching between said first status and said second status, a secured switch control unit communicating with said command input unit in such a manner that when said input signal is triggered, said secured switch control unit is adapted to generate a switch control signal which is then transmitted to said central processing unit for initialing a switching task between said first status and said second status of said computing system, and a connection switch unit communicating with said secured switch control unit for receiving an external switching command for switching between said first and said second status, wherein said external switch command is then transmitted to said secured switch control unit for initializing said corresponding switch control signal.

Claim 16 (new): The computing system, as recited in claim 14, wherein said first storage unit of said first operating system comprises a first random access memory module, a first display memory module, and a first hard disk having a first predetermined capacity for storing and processing said first data set, wherein said second storage unit of said second operating system comprises a second random access memory module, a second display memory module, and a second hard disk having a second predetermined capacity for storing and processing said second data set, wherein said first data set and said second data set are prohibited from mixing with each other so as to independently separate said first and said second operating system in accordance said first and said second status of said computing system.

Claim 17 (new): The computing system, as recited in claim 15, wherein said first storage unit of said first operating system comprises a first random access memory module, a first display memory module, and a first hard disk having a first predetermined capacity for storing and processing said first data set, wherein said second storage unit of said second operating system comprises a second random access memory module, a second display memory module, and a second hard disk having a second predetermined capacity for storing and processing said second data set, wherein said first data set and said second data set are prohibited from mixing with each other so as to independently separate said first and said second operating system in accordance said first and said second status of said computing system.

Claim 18 (new): The computing system, as recited in claim 16, wherein said connection switch unit further comprises an identification verification unit which is adapted to verify an identity of a user giving said external switching command so as to ensure said switching between said first status and said second status is carried out by an authorized and legitimate user.

Claim 19 (new): The computing system, as recited in claim 17, wherein said connection switch unit further comprises an identification verification unit which is adapted to verify an identity of a user giving said external switching command so as to ensure said switching between said first status and said second status is carried out by an authorized and legitimate user.

Claim 20 (new): The computing system, as recited in claim 18, wherein said switch device comprises a status switch command input unit communicating with said switch unit and adapted to trigger an input signal for switching between said first status

and said second status, a monitoring unit communicating with said status switch command input unit, a read only memory, loaded with a predetermined interrupt service program for commanding switching between said first status and said second status, communicating with said monitoring unit and said status switch command input unit, and a switch unit communicating with said monitoring unit for receiving an external switching command, in such a manner that when said external switching command is received, said status switch command input unit triggers a input signal which is then transmitted to said monitoring unit for initiating a switch control signal to said central processing unit to execute switching between said first status and said second status in accordance with said interrupt service program.

Claim 21 (new): The computing system, as recited in claim 19, wherein said switch device comprises a status switch command input unit communicating with said switch unit and adapted to trigger an input signal for switching between said first status and said second status, a monitoring unit communicating with said status switch command input unit, a read only memory, loaded with a predetermined interrupt service program for commanding switching between said first status and said second status, communicating with said monitoring unit and said status switch command input unit, and a switch unit communicating with said monitoring unit for receiving an external switching command, in such a manner that when said external switching command is received, said status switch command input unit triggers an input signal which is then transmitted to said monitoring unit for initiating a switch control signal to said central processing unit to execute switching between said first status and said second status in accordance with said interrupt service program.

Claim 22 (new): The computing system, as recited in claim 20, further comprising a set trigger electrically connected to said monitoring unit for sending out a non-interruptible NMI signal to said central processing unit, and a reset trigger electrically connected to said monitoring unit in such a manner that when switching of said two statuses is finished, said monitoring unit is adapted to send a signal to said reset trigger, which then reset said set trigger and mask said switching function of said connection switch unit for preventing illegitimate switching between said two statuses.

Claim 23 (new): The computing system, as recited in claim 21, further comprising a set trigger electrically connected to said monitoring unit for sending out a non-interruptible NMI signal to said central processing unit, and a reset trigger electrically connected to said monitoring unit in such a manner that when switching of

said two statuses is finished, said monitoring unit is adapted to send a signal to said reset trigger, which then resets said set trigger and masks said switching function of said connection switch unit for preventing illegitimate switching between said two statuses.

Claim 24 (new): The computing system, as recited in claim 22, wherein said secured switch control unit comprises a memory adapted to store control command to complete switches between said first status and said second status, and a unit forbidding to access read-only memory in the computing system, to ensure that the only programs stored in the stated memory can be executed in the switching process.

Claim 25 (new): The computing system, as recited in claim 23, wherein said secured switch control unit comprises a memory adapted to store control command to complete switches between said first status and said second status, and a unit forbidding to access read-only memory in the computing system, to ensure that the only programs stored in the stated memory can be executed in the switching process.

Claim 26 (new): A method of securely switching at least two statuses of a computing system operating by a first operating system which stores a first data set, and a second operating system which stores a second data set respectively, wherein said method comprises the steps of:

(a) receiving a request for switching said computing system from a first status to a second status by a command input unit; and

(b) in response to said request, switching said computing system between a first status and a second status by a switch control unit through a single central processing unit of said computing system, wherein in said first status, said central processing unit allows uninterrupted and sole access to said first data set of said first operating system while prohibiting access of said second data set of said second operating system, wherein in said second status, said central processing unit is switched to allow uninterrupted and sole access to said second data set of said second operating system while prohibiting access to said first data set from said first operating system, so that said computing system is adapted to operate between said two statuses independently with each other and with maximum security between said first and said second status.

Claim 27 (new): The method, as recited in claim 26, further comprising a step, in between said step (a) and said step (b), of verifying an identification of a user executing said request for switching between said first and said second status, wherein said switching between said first and said second status is only carried out when said request is legitimate, wherein when said identification of said user is verified, a non-interruptible NMI is sent to trigger switching between said first status and said second status.

Claim 28 (new): The method, as recited in claim 27, further comprising a step of masking a switching function between said first and said second status when one of said first and said second status is switched to said remaining status, so as to minimize a possibility of said status being switched illegitimately.

Claim 29 (new): The method, as recited in claim 28, further comprising a step of ensuring that said response to switching status is executed only by a prearranged control program so as to prohibit illegitimate switching of said first and said second status.

Claim 30 (new): The method, as recited in claim 29, wherein step (c) comprises a sub-step of saving said data set of said corresponding status before said status is switched to another of said statuses of said computing system.